APPLICABLE CODES Year International Building Code 2006 National Electrical Code	
0000	Year
International Building Code International Mechanical Code International Plumbing Code International Fire Code International Fire Code International Energy Conservation Code International Energy Conservation Code International Energy Conservation Code International Energy Conservation Code International Energy Conservation Code International Building Code International Electrical Code Uniform Code of Building Conservation ADA Accessibility Guildelines International Electrical Code Uniform Code of Building Conservation ADA Accessibility Guildelines	0004
A. Occupancy and Group:EXISTING MECHANICAL ROOM	
Change in Use: Yes NoX Mixed Occupancy: Yes Special Use and Occupancy (e.g. High Rise, Covered Mall):	
B. Seismic Design Category: Design Wind Speed:	_ mph
C. Type of Construction (circle one):	<u>▼</u> B
D. Fire Resistance Rating Requirements for the Exterior Walls based of separation distance (in hours): North: South: East: West:	n the fire
E. Mixed Occupancies: Nonseparated Uses: F: Sprinklers:	
Required: Provided: Type of Sprinkler System:	
G: Number of Stories: Building Height:	
H: Actual Area per Floor (square feet):	_
I: Tabular Area:	_
J: Area Modifications:	
$\begin{bmatrix} A_t I_t \end{bmatrix} \begin{bmatrix} A_t I_s \end{bmatrix}$	l w
a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $I_f = 100 \left[\frac{F}{P} - 0.25\right]$	30
 One Story: Two Story: A_a(2) Three Story: A_a(3) 	
d) Unlimited Area Building: Yes No Code Sect	
,	ion:
K. Fire Resistance Rating Requirements for Building Elements (hours).	ion:
K. Fire Resistance Rating Requirements for Building Elements (hours). Hours Assembly Element Hours	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Exterior Bearing Walls Floors - Ceiling Floors	Aggemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Plants Floors - Ceiling Floors Roofs - Ceiling Roofs Exterior Non-Bearing Walls Exterior Doors and Windows	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Exterior Bearing Walls Floors - Ceiling Floors Roofs - Ceiling Roofs	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Plant Hours Interior Bearing Walls Exterior Non-Bearing Walls Exterior Non-Bearing Walls Structural Frame Partitions - Permanent Fire Walls	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Interior Bearing Walls Exterior Non-Bearing Walls Exterior Non-Bearing Walls Structural Frame Partitions - Permanent Fire Barriers Fire Partitions	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Interior Bearing Walls Exterior Non-Bearing Walls Exterior Non-Bearing Walls Structural Frame Partitions - Permanent Fire Barriers Fire Partitions Smoke Partitions L. Design Occupant Load:	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Ploors - Ceiling Floors - Ceiling Floors Roofs - Ceiling Roofs Exterior Non-Bearing Walls Structural Frame Partitions - Permanent Fire Barriers Fire Partitions Smoke Partitions	ours Assemb
K. Fire Resistance Rating Requirements for Building Elements (hours). Element Hours Assembly Listing Element Hours Plant Plan	ours Assemb
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DRAPER NATIONAL GUARD HQ CHILLER REPLACEMENT

DFCM PROJECT #07294480



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DRAWING INDEX:

M001 TITLE SHEET
MG001 MECHANICAL GENERAL NOTES AND LEGEND
MD401 LARGE SCALE MECHANICAL DEMOLITION PLAN
ME401 LARGE SCALE MECHANICAL PLAN
ME601 MECHANICAL DETAIL AND SCHEDULES

MECHANICAL ENGINEER
WHW ENGINEERING, INC.
1354 EAST 3300 SOUTH SUITE 200
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EMAIL: excellence@whw-engineering.com



	MECHANICAL LEGEND											
SYMBOL ABR. DESCRIPTION				ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION				
		GENERAL TERMINOLOGY			WET SIDE		•	WET SIDE CONT				
SECTION LETTER DESIGNATION					PUMP	—		PITCH DOWN				
ME-101	-	-SECTION DRAWN ON THIS SHEET		PSD	C DUMP QUICTION DIFFUSED			ELBOW UP				
42		- DETAIL NUMBER DESIGNATION		1590	PUMP SUCTION DIFFUSER	C		ELBOW DOWN				
A2)		CORRESPONDING WITH GRID LOCATION	— <u>—</u>		UNION			TEE UP				
AH		MECHANICAL EQUIPMENT DESIGNATION	Г		MANUAL ACTUATOR (BALL,			TEE DOWN				
1		- EQUIPMENT ITEM DESIGNATION			BUTTERFLY, NEEDLE, ETC. VALVES)			EXISTING PIPING TO BE REMOVED				
D-1		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED	Т		MANUAL ACTUATOR (GATE, GLOBE,			EXISTING PIPING TO REMAIN				
CFM		BELOW			S&D, OS&Y, ETC. VALVES)			NEW PIPING				
R-1		GRILLE, OR LOUVER DESIGNATION WHERE	1		PNEUMATIC DIAPHRAGM ACTUATOR			PIPE CAP OR PLUG				
K-1		BALANCING NOT REQUIRE	M		ELECTRIC MOTOR ACTUATOR			CONCENTRIC REDUCER				
Â		REVISION DESIGNATOR AND NUMBER	S		SOLENOID ACTUATOR			ECCENTRIC REDUCER				
1		KEY NOTE DESIGNATOR AND NUMBER	X		THREADED OR SWEAT VALVE CONNECTION			EXPANSION JOINT				
•	POC	POINT OF CONNECTION			FLANGED VALVE CONNECTION	— —		FLEXIBLE CONNECTION				
$\overline{\bullet}$	POR	POINT OF REMOVAL	<u> </u>		BUTTERFLY VALVE	\rightarrow		ANCHOR POINT				
AFF		ABOVE FINISHED FLOOR	X —		GATE VALVE	—cd—		CONDENSATE DRAIN				
AP		ACCESS PANEL			GLOBE VALVE - STRAIGHT PATTERN	—-G—		NATURAL GAS PIPING				
િ EL.		CENTER LINE ELEVATION	*		GLOBE VALVE - ANGLE PATTERN	—CF—		CHEMICAL FEED LINE				
INV. ELEV.		INVERT ELEVATION			MOTORIZED 2-WAY CONTROL VALVE	— ми —		MAKE-UP WATER LINE				
GC		GENERAL CONTRACTOR			MOTORIZED 3-WAY CONTROL VALVE		CW	CULINARY COLD WATER				
MC		MECHANICAL CONTRACTOR	<u></u>		CHECK VALVE		HW	CULINARY HOT WATER				
CC		CONTROL CONTRACTOR	<u></u>	PRV	PRESSURE REDUCING VALVE			RECIRCULATED CULINARY HOT WATER				
EC		ELECTRICAL CONTRACTOR	<u>***</u>	PRV	PRESSURE REDUCING VALVE W/ CHECK	—DR—		EQUIPMENT DRAIN				
FPC		FIRE PROTECTION CONTROL	₩	CBV	CIRCUIT BALANCING VALVE	-HWS-		HEATING WATER SUPPLY				
NIC		NOT IN CONTRACT	Ф—	BV	BALL VALVE	-HWR-		HEATING WATER RETURN				
NTS		NOT TO SCALE		PRV	PRESSURE RELIEF VALVE	-chws-		CHILLED WATER SUPPLY				
С		COMMON	▼ T	TRV	THERMAL RELIEF VALVE	-CHWR-		CHILLED WATER RETURN				
NC		NORMALLY CLOSED	‡ s	SRV	SAFETY RELIEF VALE	—cs—		CONDENSER SUPPLY				
NO		NORMALLY OPEN			PLUG VALVE	—CR—		CONDENSER RETURN				
			\ \ \\\		NEEDLE VALVE							

| TDV | TRIPLE DUTY VALVE - ANGLE TDV TRIPLE DUTY VALVE - STRAIGHT AUTOMATIC AIR VENT MANUAL AIR VENT STRAINER STRAINER W/ PLUGGED BLOW OFF ____ VTI | VENTURI PRESSURE GAUGE AND GAUGE COCK -WATER PRESSURE GAUGE AND GAUGE COCK -STEAM THERMOMETER AND THERMOWELL WATER TEMPERATURE SENSOR AND **THERMOWELL** FLOW SWITCH PS | PRESSURE SWITCH ____| TW | THERMOWELL

DIRECTION OF FLOW

GENERAL NOTES:

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

> A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED **EQUIPMENT AND CONTROLS.**

SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE UNLESS SPECIFICALLY AUTHORIZED IN WRITING PRIOR TO BID.

State of Utah Department of Administrative Services

Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114 Phone: (801) 538 - 3018 Fax: (801) 538 - 3267

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CONSULTANTS



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PROJECT NAME & ADDRESS

DRAPER NATIONAL **GUARD HQ CHILLER** REPLACMENT **DFCM #07294480**

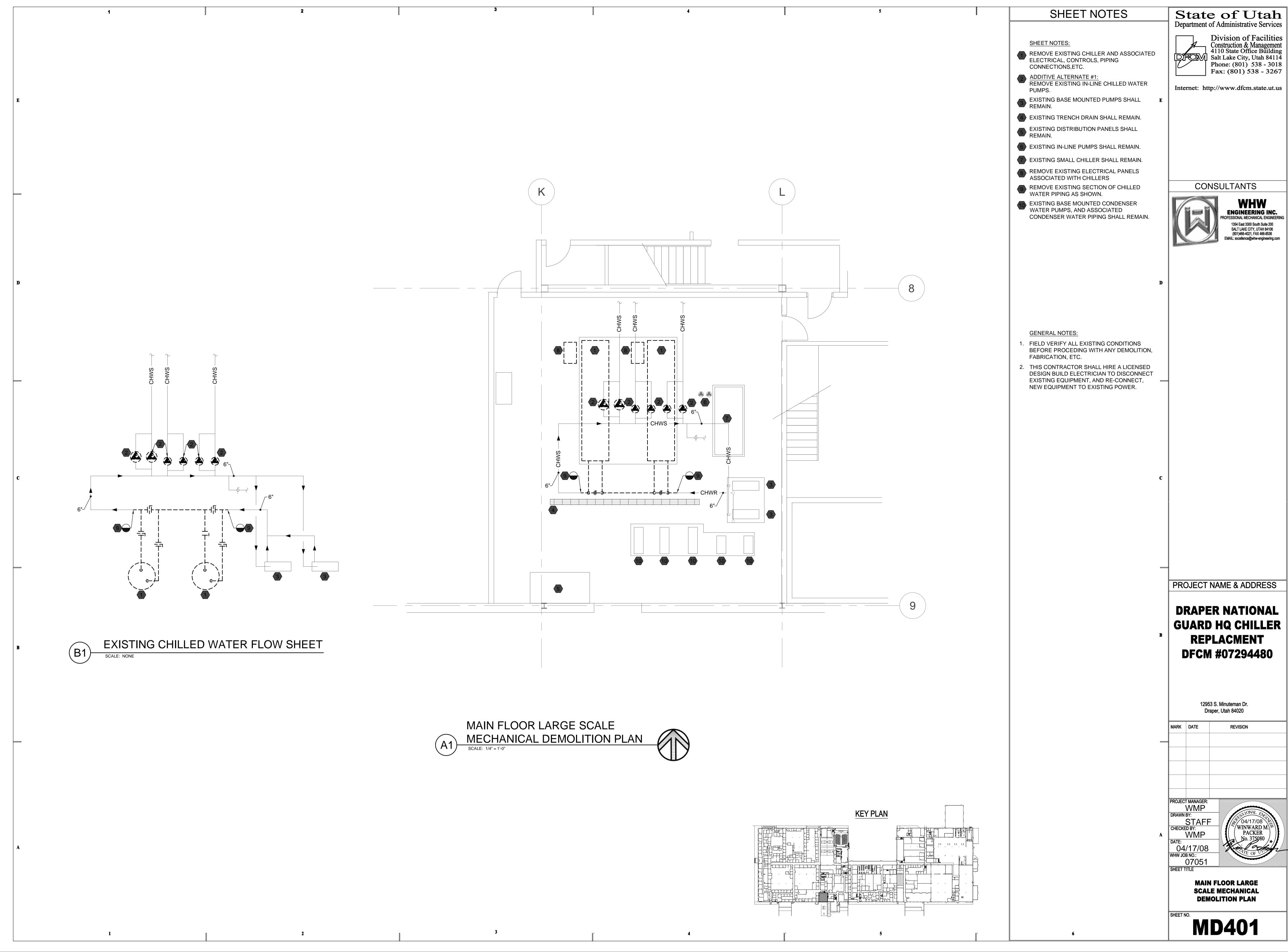
> 12953 S. Minuteman Dr. Draper, Utah 84020

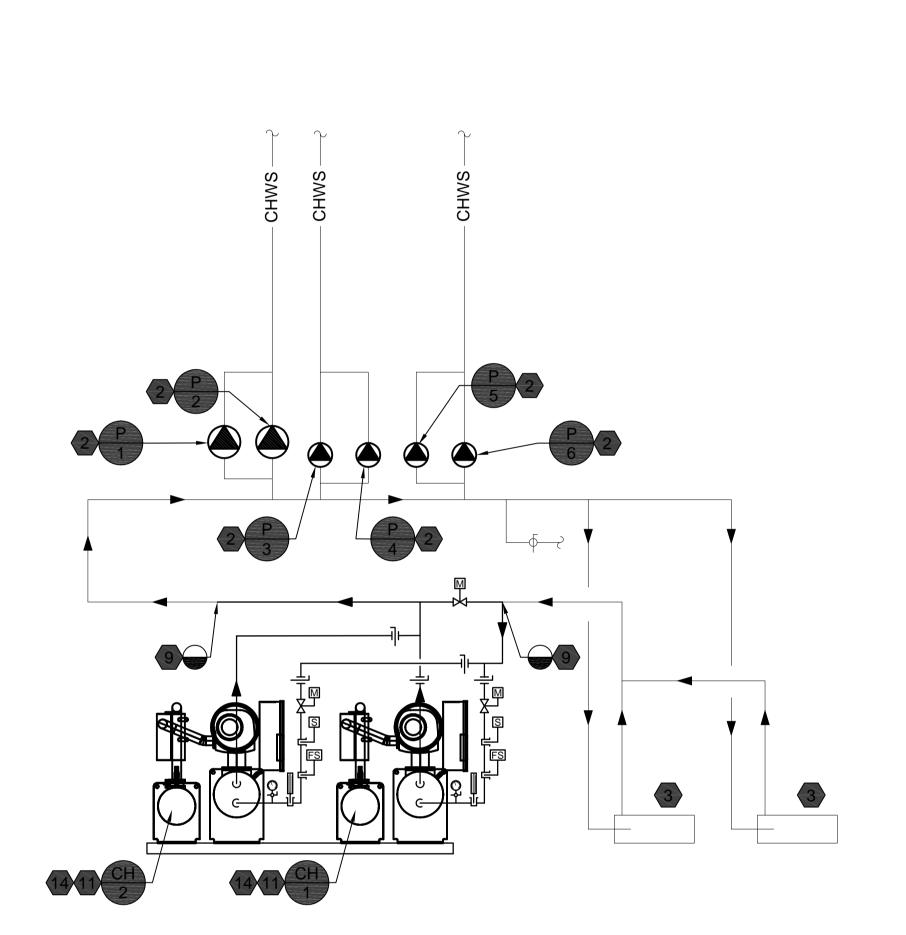
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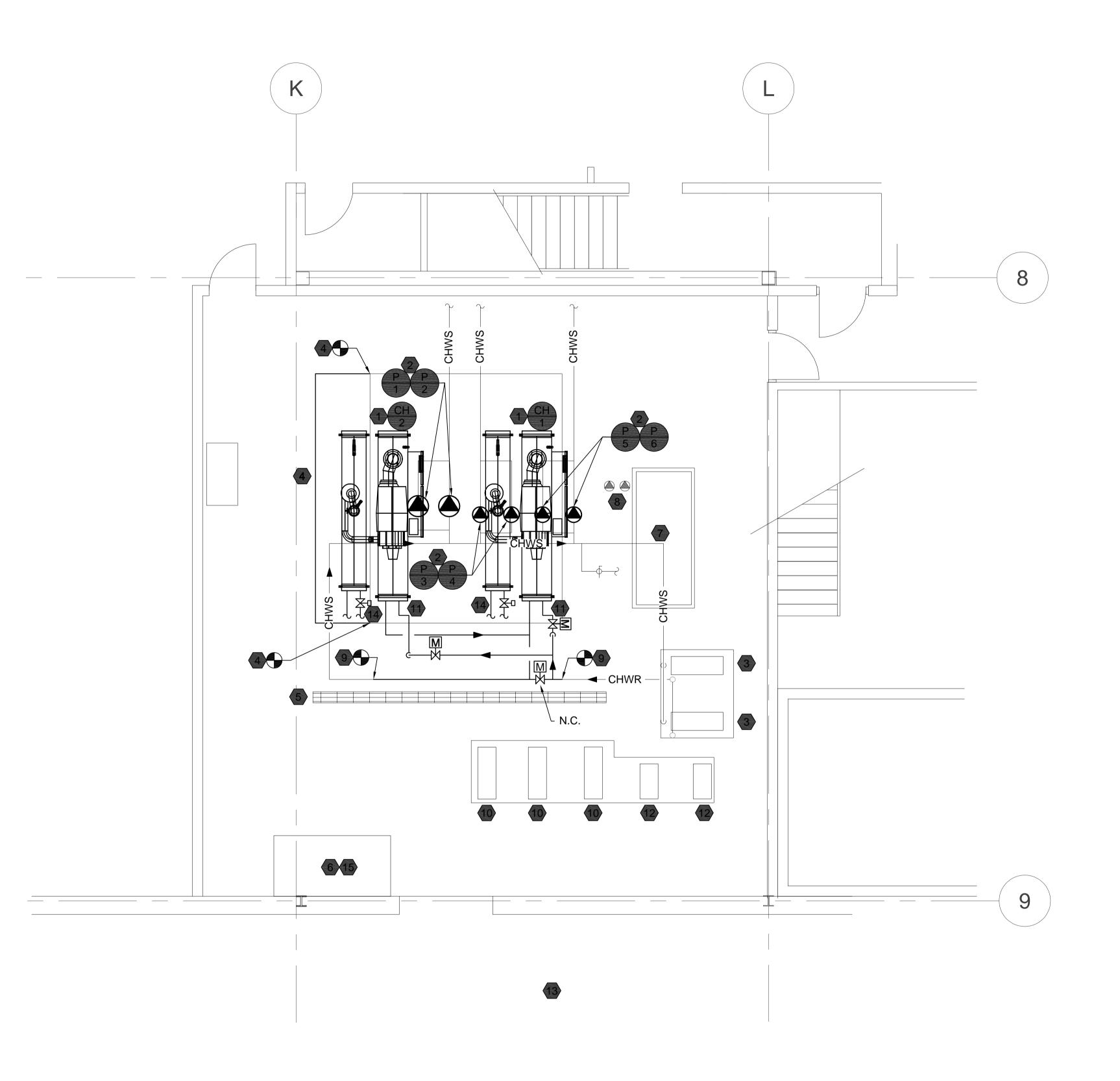
GENERAL MECHANICAL NOTES AND LEGEND

MG001





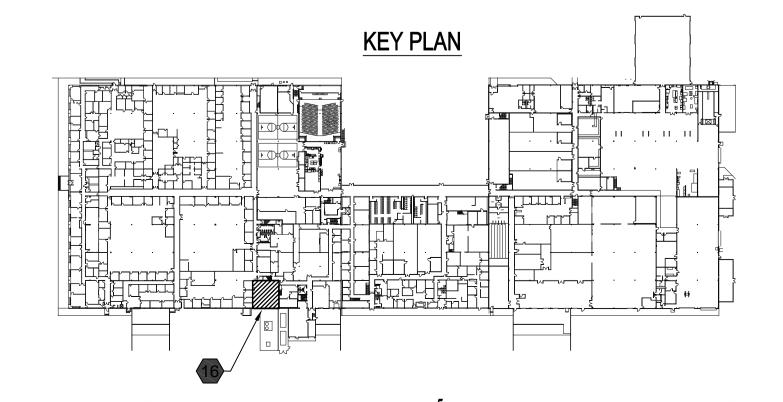
NEW CHILLED WATER FLOW SHEET



MAIN FLOOR LARGE SCALE MECHANICAL PLAN

SCALE: 1/4" = 1'-0"





SHEET NOTES

SHEET NOTES:

- PROVIDE NEW CHILLER AND CHILLED WATER PIPING. RE-CONNECT TO EXISTING CONDENSER PIPING, AND CONTROLS. MOUNT ON EXISTING CONCRETE HOUSEKEEPING PAD. PROVIDE SAFETY RELIEF VENT PIPING TO EXTERIORS.
- ADDITIVE ALTERNATE #1: PROVIDE NEW IN-LINE PUMPS. RE-CONNECT E TO EXISTING PIPING, ELECTRICAL, AND CONTROLS. MODIFY AS NECESSARY.
- EXISTING BASE MOUNTED CHILLED WATER PUMPS SHALL REMAIN. PROVIDE NEW 15 HP
- VFD FOR EACH PUMP. PROVIDE NEW HOUSE KEEPING PAD. EXTEND 3'-6", AND DOWN INTO EXISTING PAD.
- EXISTING TRENCH DRAIN SHALL REMAIN.
- EXISTING DISTRIBUTION PANEL SHALL REMAIN.
- EXISTING SMALL CHILLER SHALL REMAIN.

8 EXISTING IN-LINE PUMPS SHALL REMAIN.

- PROVIDE NEW CHILLED WATER PIPING AS SHOWN.
- PROVIDE NEW VFDS FOR EXISTING 25 HP CONDENSER WATER PUMPS. ASSOCIATED CONDENSER WATER PIPING SHALL REMAIN.
- PROVIDE NEW CHILLED WATER PIPING CONNECTIONS TO NEW CHILLERS. SEE DETAIL. INSTALL CHILLERS IN SEQUENCE SO THAT AT LEAST 1 REMAINS OPERATIONAL AT ALL TIMES.
- EXISTING SMALL CONDENSER PUMPS TO EXISTING SMALL CHILLER SHALL REMAIN.
- EXISTING COOLING TOWER AND ASSOCIATED PIPING, ELECTRICAL, ETC. SHALL REMAIN. COORDINATE WITH ATC TO PROGRAM 4 STAGES OF TOWER. (2 CELLS, 2 FAN SPEEDS PER CELL)
- PROVIDE CONDENSER PIPING MODIFICATIONS AS NECESSARY TO CONNECT TO NEW CHILLERS. PROVIDE 2-WAY MODULATING CONTROL VALVE IN CONDENSER SUPPLY TO CHILLER. SEE
- THIS CONTRACTOR SHALL HIDE A DESIGN BUILD ELECTRICIAN TO PROVIDE ELECTRICAL CONNECTIONS FOR NEW CHILLERS. PROVIDE NEW WIRING AND BREAKERS. MODIFY EXISTING CONDUIT AS NECESSARY.
- 6 CHILLER ROOM LOCATION.

GENERAL NOTES:

- 1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY DEMOLITION, FABRICATION, ETC.
- 2. THIS CONTRACTOR SHALL HIRE A LICENSED ELECTRICIAN TO DISCONNECT EXISTING EQUIPMENT, AND RE-CONNECT, NEW EQUIPMENT TO EXISTING POWER. RE-PLACE BREAKERS, DISCONNECTS, ETC.

State of Utah

Department of Administrative Services Division of Facilities



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PROJECT NAME & ADDRESS

DRAPER NATIONAL **GUARD HQ CHILLER REPLACMENT DFCM #07294480**

> 12953 S. Minuteman Dr. Draper, Utah 84020

MARK	DATE		RI	EVISION		
	TMANAGER: WMP				***	
DRAWN	BY: STAFF	<u> </u>		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	17/08	
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DATE:	<u>WMP</u>				375080	/*/ }
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MAIN FLOOR LARGE

SCALE MECHANICAL PLAN

ME401

CHILLER SCHEDULE

SYMBOL	CAPACITY TONS	COOLER DATA				CONDENSER DATA				ELECTRICAL							7					
		GPM	MAX PRESS. DROP FT	WATER IN TEMP. °F	WATER OUT TEMP. °F	NO. OF PASSES	GPM	MAX PRESS. DROP FT	WATER IN TEMP. °F	WATER OUT TEMP. °F	NO. OF PASSES	INPUT KW	VOLT	Ø	Hz RL/	A LRA	INRUSI AMPS		МОСР	SOUND PRESSURE (dBA)	COMMENTS	MANUFACTURER AND MODEL
CH 1	224	534	5	55	45	2	614	18.1	85	75	2	110.2	460	3	60 156	1280	400	194.3	300	83	1,2,3,4,5	TRANE RTHD
CH 2	224	534	5	55	45	2	614	18.1	85	75	2	110.2	460	3	60 156	1280	400	194.3	300	83	1,2,3,4,5	TRANE RTHD

1. MAXIMUM NPLV SHALL BE 0.477 KW/TON (7.37 COP). MINIMUM PEAK EFFICIENCY SHALL BE 0.493 KW/TON (7.13 COP).

2 SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

ADDITIVE ALTERNATE #1

3. PROVIDE SOUND REDUCTION ENCLOSURE/WRAP FOR ENTIRE CHILLER. SOUND REDUCTION SHALL REDUCE SOUND PRESSURE BY A MINIMUM 11 dBA.

4. PROVIDE MINIMUM 3 DAY FACTORY TRAINING FOR 1 MEMBER OF OWNER'S MAINTENANCE TEAM. ADDITIVE ALTERNATE #2

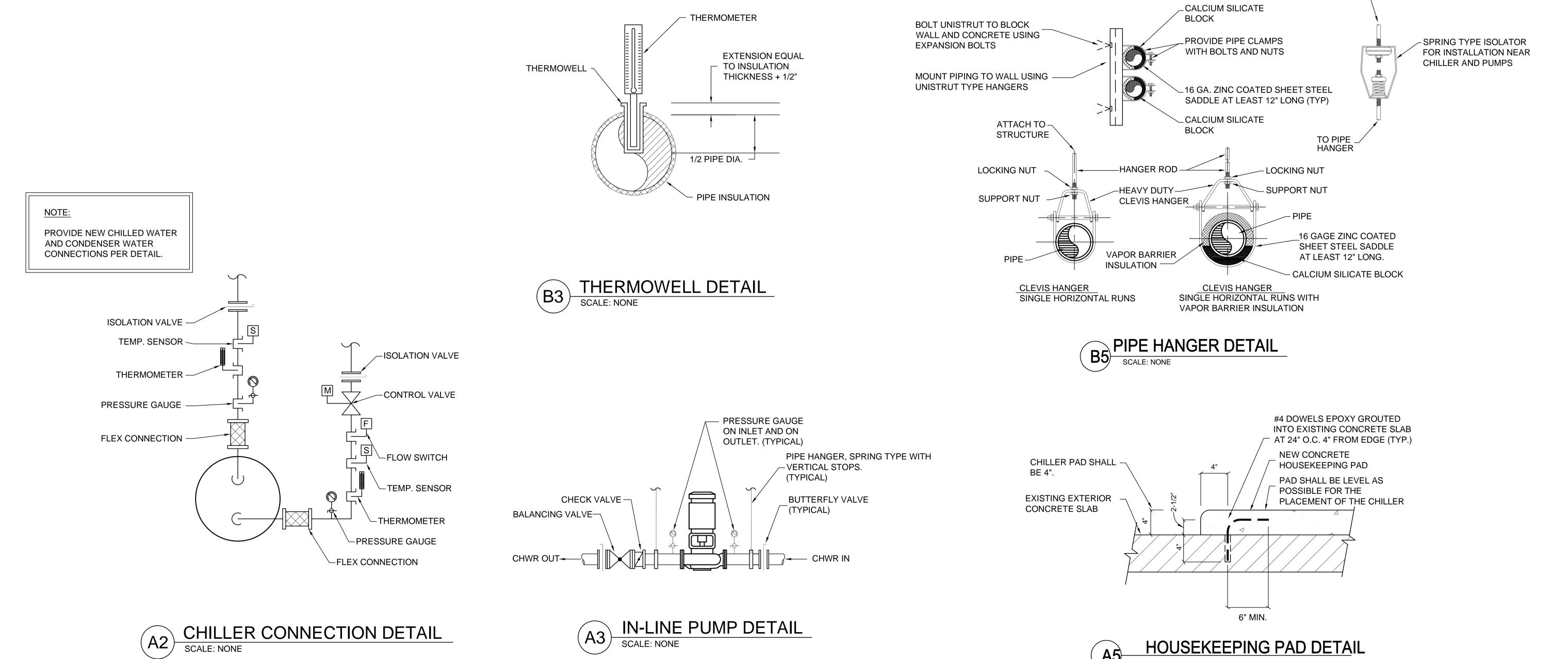
5. COORDINATE OVERALL DIMENSIONS WITH PLAN VIEW. VERIFY THAT UNIT WILL FIT WITH PROPER CLEARANCES AS SHOWN.

	PUMP SCHEDULE															
SYMBOL	TYPE	MAKE / MODEL	GPM	FT. HEAD			MOTOR			WEIGHT LBS	SERVICE	SCHEDULE NOTES				
					OIZE	SIZE SIZE	5.22		3.22		V - Ø - Hz	HP	RPM			NOTES
P 1	IN-LINE	BELL & GOSSETT SERIES 80	500	90	4	4	10.625	460/3/60	20	1750	585	CHILLED WATER	1,2,3			
P 2	IN-LINE	BELL & GOSSETT SERIES 80	500	90	4	4	10.625	460/3/60	20	1750	585	CHILLED WATER	1,2,3			
<u>P</u> 3	IN-LINE	BELL & GOSSETT SERIES 80	95	95	2	2	9.5	460/3/60	7.5	1750	250	CHILLED WATER	1,2,3			
P 4	IN-LINE	BELL & GOSSETT SERIES 80	95	95	2	2	9.5	460/3/60	7.5	1750	250	CHILLED WATER	1,2,3			
<u>p</u> 5	IN-LINE	BELL & GOSSETT SERIES 80	95	95	2	2	9.5	460/3/60	7.5	1750	250	CHILLED WATER	1,2,3			
P 6	IN-LINE	BELL & GOSSETT SERIES 80	95	95	2	2	9.5	460/3/60	7.5	1750	250	CHILLED WATER	1,2,3			

1. PROVIDE REMOVABLE INSULATION KIT AROUND PUMP SUCTION.

2. ALL PUMPS SHALL BE SIZED IN THE MIDDLE PART OF THE CURVE. SEE DETAIL.

3. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.



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PROJECT NAME & ADDRESS

ATTACH TO CHILLER

STRUCTURE

DRAPER NATIONAL **GUARD HQ CHILLER REPLACMENT DFCM #07294480**

> 12953 S. Minuteman Dr. Draper, Utah 84020

	MARK	DATE		REVIS	SION	
	II	TMANAGER: WMP				
	DRAWN		_		04/17/08 /INWARD	KEEL L
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MECHANICAL DETAILS AND SCHEDULES

ME601